

SUBJECT INDEX

A

- Abdomen
 - acute, in dialysis-dependent patient, cecal necrosis and, 621
 - aortic aneurysm, 94
 - bilateral iliac artery ligation and axillobifemoral bypass in, 460
 - penetrating injuries, sepsis following, cefamandole vs carbenicillin prophylaxis, 580
 - scintigraphic examination, in detection of bleeding source from small intestine, 658
 - surgery, tube gastrostomy in, 201
- Abscess, intra-abdominal, diagnosis, 431
- Achalasia, mimicking peptic esophageal stricture, 563
- Acid ingestion, corrosive stomach injuries and, 170
- Acid peptic disease, surgical treatment, 556
- Actinomycosis, surgical aspects, 262
- Adenoma, parathyroid, ectopic, localization of, 344
- Alport's syndrome, renal transplantation in, 414
- Altemeier's procedure, for rectal prolapse, stapler modification, 116
- Amino acids, branched chain, for total parenteral nutrition in stressed patient, 609
- Amputation, below-knee, transcutaneous oxygen monitoring in, 697
- Anastomosis
 - biliary enteric, scintiscan evaluation, 158
 - esophagogastric, EEA stapler in, 223
- Aneurysms
 - abdominal aorta, 94
 - bilateral iliac ligation and axillobifemoral bypass in, 460
 - chronic traumatic thoracic, of aortic arch, 567
 - infrarenal aortic, 94
 - mycotic, methicillin-resistant *Staphylococcus aureus* in, antibiotic use in, 314
 - splenic artery, digital subtraction angiography in, 606
- Angiography
 - in chronic traumatic thoracic aneurysm of aortic arch, 567
 - digital subtraction, in splenic artery aneurysms, 606
- Antacids, cimetidine vs, in prophylaxis of acute stress ulcers, 545
- Antibiotics, in methicillin-resistant staphylococcal mycotic aneurysms, 314
- Anticoagulation, during extracorporeal bypass, activated clotting time in control of, 274
- Anti-inflammatory drugs, nonsteroidal, and peptic ulcer disease, 358
- α_1 -antiplasmin level, following cardiopulmonary bypass, 309
- Antithrombin level, following cardiopulmonary bypass, 309
- Aorta, graft, omental patching, small bowel obstruction and, 661
- Aortic aneurysm, *see under* aneurysms
- Aortic arch, traumatic thoracic aneurysm, chronic, 567
- Aortoesophageal fistula, 548
- Appendectomy, during pregnancy, 265
- Appendicitis
 - barium enema in evaluation of, 474
 - nutritional immunity and, 689
 - pelvic inflammatory disease vs, 217
- Arteriography, contrast, in suspected arterial injuries of extremities, 89
- Arteriovenous shunt, forearm, for hemodialysis, 630
- Ascites, in cirrhosis, total exchangeable sodium and potassium and serum electrolyte levels, 671
- Autotransplantation, intraperitoneal splenic implants and clearance of pneumococcal bacteremia, 269

B

- Bacteremia
 - cardiac output and renal changes in, steroids and (dog), 712
 - clearance of, intraperitoneal splenic implants and, 269
 - Clostridium perfringens*, 301
- Bacterial adherence, to vascular sutures, 577
- Barium enema, in appendicitis evaluation, 474
- Bile crystallography, in occult gallbladder disease, 162
- Biliary tract
 - biliary enteric anastomosis, scintiscan evaluation, 158
 - common duct exploration for choledocholithiasis, cholelithiasis in, 166
 - obstruction, mechanical, multisystem consequences, 245
- Biopsy
 - lymph nodes, peripheral, malignancy in, 587
 - parathyroid glands, in primary hyperparathyroidism, 8
- Brachial artery pressure, during reactive hyperemia and papaverine vasodilation, 237
- Breast
 - carcinoma, in males, 47
 - lesions
 - mammography, sonomammography and diaphanography, 58, 591
 - specimen xeroradiography, 50
 - imaging, current status, 591
- Bypass surgery, *see also* revascularization
 - aortocoronary, effects of techniques on reperfusion cardiac rhythm and ventricular function, 497
 - axillobifemoral bypass and iliac artery ligation, in abdominal aortic aneurysm, 460
 - cardiopulmonary, antithrombin, antiplasmin and plasminogen parameters following, 309
 - gastric
 - in morbid obesity, "second" operations for poor weight loss, 208, 559
 - outlet stenosis following, endoscopic balloon dilation of, 194
 - Roux-en-Y, conversion from lesser curvature gastropasty, 559

C

- Cancer, *see also specific organ; tumor*
 - in peripheral lymph node biopsy, 587
- Carbenicillin, prophylactic, in penetrating abdominal trauma, 580
- Carcinoid tumors, gastrointestinal tract, 37
- Carcinoma, *see specific anatomic areas; tumors*
- Cardiac output, in bacteremia, steroids and (dog), 712
- Cardiac rhythm, on reperfusion, aortocoronary bypass grafting technique and, 497
- Cardiac surgery, in pediatric patient, subclavian vein catheterization for central line placement, 272
- Cardioplegia, glucose-insulin-potassium solution, preservation of myocardial contractility and, 256
- Carotid artery disease, oculocephalography and supraorbital Doppler evaluation, 107
- Carotid bruit
 - asymptomatic, 388
 - post endarterectomy, 570
- Carotid endarterectomy
 - postoperative bruit, Duplex scan evaluation, 570
 - for stroke, 61
 - stroke following, lucid interval in, 114
 - wound hematoma after, 111

SUBJECT INDEX

A

- Abdomen
 - acute, in dialysis-dependent patient, cecal necrosis and, 621
 - aortic aneurysm, 94
 - bilateral iliac artery ligation and axillobifemoral bypass in, 460
 - penetrating injuries, sepsis following, cefamandole vs carbenicillin prophylaxis, 580
 - scintigraphic examination, in detection of bleeding source from small intestine, 658
 - surgery, tube gastrostomy in, 201
- Abscess, intra-abdominal, diagnosis, 431
- Achalasia, mimicking peptic esophageal stricture, 563
- Acid ingestion, corrosive stomach injuries and, 170
- Acid peptic disease, surgical treatment, 556
- Actinomycosis, surgical aspects, 262
- Adenoma, parathyroid, ectopic, localization of, 344
- Alport's syndrome, renal transplantation in, 414
- Altemeier's procedure, for rectal prolapse, stapler modification, 116
- Amino acids, branched chain, for total parenteral nutrition in stressed patient, 609
- Amputation, below-knee, transcutaneous oxygen monitoring in, 697
- Anastomosis
 - biliary enteric, scintiscan evaluation, 158
 - esophagogastric, EEA stapler in, 223
- Aneurysms
 - abdominal aorta, 94
 - bilateral iliac ligation and axillobifemoral bypass in, 460
 - chronic traumatic thoracic, of aortic arch, 567
 - infrarenal aortic, 94
 - mycotic, methicillin-resistant *Staphylococcus aureus* in, antibiotic use in, 314
 - splenic artery, digital subtraction angiography in, 606
- Angiography
 - in chronic traumatic thoracic aneurysm of aortic arch, 567
 - digital subtraction, in splenic artery aneurysms, 606
- Antacids, cimetidine vs, in prophylaxis of acute stress ulcers, 545
- Antibiotics, in methicillin-resistant staphylococcal mycotic aneurysms, 314
- Anticoagulation, during extracorporeal bypass, activated clotting time in control of, 274
- Anti-inflammatory drugs, nonsteroidal, and peptic ulcer disease, 358
- α_1 -antiplasmin level, following cardiopulmonary bypass, 309
- Antithrombin level, following cardiopulmonary bypass, 309
- Aorta, graft, omental patching, small bowel obstruction and, 661
- Aortic aneurysm, *see under* aneurysms
- Aortic arch, traumatic thoracic aneurysm, chronic, 567
- Aortoesophageal fistula, 548
- Appendectomy, during pregnancy, 265
- Appendicitis
 - barium enema in evaluation of, 474
 - nutritional immunity and, 689
 - pelvic inflammatory disease vs, 217
- Arteriography, contrast, in suspected arterial injuries of extremities, 89
- Arteriovenous shunt, forearm, for hemodialysis, 630
- Ascites, in cirrhosis, total exchangeable sodium and potassium and serum electrolyte levels, 671
- Autotransplantation, intraperitoneal splenic implants and clearance of pneumococcal bacteremia, 269

B

- Bacteremia
 - cardiac output and renal changes in, steroids and (dog), 712
 - clearance of, intraperitoneal splenic implants and, 269
 - Clostridium perfringens*, 301
- Bacterial adherence, to vascular sutures, 577
- Barium enema, in appendicitis evaluation, 474
- Bile crystallography, in occult gallbladder disease, 162
- Biliary tract
 - biliary enteric anastomosis, scintiscan evaluation, 158
 - common duct exploration for choledocholithiasis, cholelithiasis in, 166
 - obstruction, mechanical, multisystem consequences, 245
- Biopsy
 - lymph nodes, peripheral, malignancy in, 587
 - parathyroid glands, in primary hyperparathyroidism, 8
- Brachial artery pressure, during reactive hyperemia and papaverine vasodilation, 237
- Breast
 - carcinoma, in males, 47
 - lesions
 - mammography, sonomammography and diaphanography, 58, 591
 - specimen xeroradiography, 50
 - imaging, current status, 591
- Bypass surgery, *see also* revascularization
 - aortocoronary, effects of techniques on reperfusion cardiac rhythm and ventricular function, 497
 - axillobifemoral bypass and iliac artery ligation, in abdominal aortic aneurysm, 460
 - cardiopulmonary, antithrombin, antiplasmin and plasminogen parameters following, 309
 - gastric
 - in morbid obesity, "second" operations for poor weight loss, 208, 559
 - outlet stenosis following, endoscopic balloon dilation of, 194
 - Roux-en-Y, conversion from lesser curvature gastropasty, 559

C

- Cancer, *see also specific organ; tumor*
 - in peripheral lymph node biopsy, 587
- Carbenicillin, prophylactic, in penetrating abdominal trauma, 580
- Carcinoid tumors, gastrointestinal tract, 37
- Carcinoma, *see specific anatomic areas; tumors*
- Cardiac output, in bacteremia, steroids and (dog), 712
- Cardiac rhythm, on reperfusion, aortocoronary bypass grafting technique and, 497
- Cardiac surgery, in pediatric patient, subclavian vein catheterization for central line placement, 272
- Cardioplegia, glucose-insulin-potassium solution, preservation of myocardial contractility and, 256
- Carotid artery disease, oculocephalography and supraorbital Doppler evaluation, 107
- Carotid bruit
 - asymptomatic, 388
 - post endarterectomy, 570
- Carotid endarterectomy
 - postoperative bruit, Duplex scan evaluation, 570
 - for stroke, 61
 - stroke following, lucid interval in, 114
 - wound hematoma after, 111

Catheterization

- subclavian vein
 - for central line placement in pediatric patient, 272
 - change every 3 days in high-risk patients, 534
 - safety and versatility, 599
- Tenckhoff catheter placement, 627
- Cecum, necrosis, in dialysis-dependent patient, 621
- Cefamandole, prophylactic, in penetrating abdominal trauma, 580
- Chest, blunt trauma, in elderly, 693
- Chest wall, penetrating injuries, 140
- Cholangiography, intraoperative, in "mini-cholecystectomy," 168
- Cholecystectomy
 - hepaticoduodenal fistula and, 668
 - "mimi," with intraoperative cholangiography, 168
- Choledocholithiasis, common bile duct surgery for,
 - choledochoscopy in, 166
- Choledochoscopy, in common bile duct surgery for
 - choledocholithiasis, 166
- Cimetidine, antacids vs, in prophylaxis of acute stress ulcers, 545
- Circulation, extracorporeal, anticoagulation control during,
 - activated clotting time in, 274
- Cirrhosis, with ascites, total exchangeable sodium and potassium
 - and serum electrolyte levels, 671
- Clamp(s)
 - for allograft (transplant) nephrectomy, 632
 - vascular, endothelial damage from
 - atherosclerotic vessels, 401
 - normal vessels, 392
- Clostridium perfringens* bacteremia, 301
- Clotting time, activated (ACT), for control of anticoagulation
 - during surgery, 274
- Colon
 - lipoma, 449
 - sigmoid, volvulus, in children, 514
 - stercoral perforation, 520
- Colorectal cancer
 - management, changing attitudes, 26
 - operative risks, 418
 - surgical approach to, 21
- Computers, automated respiratory monitoring in sepsis, 648
- Corticosteroids, low-dose, in liver transplantation, 155
- Creatinine, serum levels, in perforating gastroduodenal ulcer, 551
- Crystallography, bile, in occult gallbladder disease, 162
- Cyclosporine, in liver transplantation, 155
- Cystic adventitial disease, popliteal artery, 455

D

- Decision-making, ethical considerations, 423
- Decortication, early thoracotomy and, for nontuberculous empyema, 230
- Diaphanography (lightscanning), mammography and sonomammography vs, in breast lesions, 58
- Diaphragm, rupture, traumatic, radioisotope-assisted diagnosis, 683
- Diazepam, as surgical adjunct, in chronic hemodialysis patient, 291
- Digital subtraction angiography, in splenic artery aneurysms, 606
- Directed manual recruitment, for collapsed lung, 330
- Doppler examination, supraorbital, in carotid artery disease, 107
- Duodenum
 - decompression, after repair of duodenal injuries, simplified technique, 604
 - injuries to, 121

E

- Eck, Nikolai Vladimirovich, 641
- Education
 - learning style analysis in surgical training, 494
 - surgical history of the Medical College of Virginia, 487
 - who will become a surgeon, 295

EEA stapler

- in Altemeier procedure for rectal prolapse, 116
 - in esophagogastrostomy, 227
- Effusion, *see* pericardial effusion
- Embolectomy, for peripheral arterial occlusions, 381
- Embolism, pulmonary, *see* pulmonary embolism
- Empyema, nontuberculous, thoracotomy and decortication for, 230
- Endometriosis, in male, 428
- Endoscopic balloon dilation, for outlet stenosis following gastric bypass, 194
- Endoscopy, intraoperative, in detection of bleeding source from small intestine, 658
- Enterovesical fistula, community experience, 523
- Esophagogastrostomy, EEA stapler in, 223
- Esophagus
 - achalasia mimicking peptic stricture, 563
 - foreign bodies, 173
- Ethics, dilemmas in decision-making, 423
- Extremities
 - arterial injuries, suspected, contrast arteriography in, 89
 - lower
 - amputation, *see* amputation
 - revascularization, pedal malperfusion following, transcutaneous $P_{tc} O_2$ documentation, 407

F

- Femoral arterial pressure, during reactive hyperemia and papaverine vasodilation, 237
- Fibronectin, as nutritional parameter in nutritionally depleted patient, 336
- Film mammography, current status, 591
- Fistula
 - aortoesophageal, 548
 - entericovesical, 523
 - hepaticoduodenal, post cholecystectomy, 668
- Forearm
 - arterial injuries, ligation or repair, 318
 - arteriovenous shunt, for hemodialysis, 630
- Foreign bodies, esophagus, 173
- Fundoplication, with/without proximal gastric vagotomy, gastric emptying and serum gastrin following (dog), 686

G

- Gallbladder
 - carcinoma, 529
 - occult disease, detection by bile crystallography, 162
- Gastric decompression
 - after repair of duodenal injuries, simplified technique, 604
 - tube gastrostomy for, 201
- Gastric emptying, post fundoplication with/without proximal gastric vagotomy (dog), 686
- Gastric surgery, jejuno gastric intussusception following, 511
- Gastrin, postprandial serum values, post fundoplication with/without proximal gastric vagotomy (dog), 686
- Gastritis
 - acute erosive (stress), bleeding from, prophylactic pH controls, 189
 - hemorrhagic, prophylaxis, 545
- Gastroesophageal reflux, in pediatric patient, patterns of, 212
- Gastrointestinal tract
 - carcinoid tumors, 37
 - stenosis, endoscopic balloon dilation in, 194
 - upper, bleeding lipoma, 279
- Gastroplasty
 - of greater curvature, for morbid obesity, 197
 - of lesser curvature, conversion to Roux-en-Y gastric bypass, 559
- Gastrostomy
 - feeding, aspiration pneumonitis and, 204
 - tube, *see* tube gastrostomy

Geriatric patient

- blunt chest trauma, 693
- peritonitis in, peritoneal lavage as diagnostic aid in, 508
- small bowel obstruction, 470

Glucose-insulin-potassium cardioplegia, and preservation of myocardial contractility during anoxic arrest, 256

Grafts

- aortic, omental patching, bowel obstruction following, 661
- arterial, external velour vs double velour Dacron in canine thoracic aorta, 637

H

Heart

- function, during hemorrhagic shock (dogs), 537
- myocardial contractility, preservation during anoxic arrest, 256
- radionuclide angiographic study, before peripheral vascular surgery, 77

Hematoma, wound, following carotid endarterectomy, 111

Hemodialysis

- cecal necrosis and, 621
- chronic, surgery in, intravenous diazepam in, 291
- forearm arteriovenous shunt for, 630

Hemorrhage

- gastric, in stress gastritis, prophylactic pH control and, 189
- gastrointestinal
- aortoesophageal fistula and, 548
- lipoma and, 279

Hemorrhagic shock, hepatic and cardiac function during (dogs), 537

Heparin, during extracorporeal bypass, activated clotting time in control of, 274

Hepaticoduodenal fistula, post cholecystectomy, 668

Hirschsprung's disease, hypertrophic pyloric stenosis in, 480

Hollander test, idiosyncracies in obese patient, 316

Homosexual patient, rectosigmoid perforation in, 602

Hyperparathyroidism

- primary
- pancreatitis and, 325
- parathyroid gland biopsy in, 8
- secondary, subtotal parathyroidectomy vs total parathyroidectomy with autotransplantation, 16

Hypertension, renovascular, 97

Hypoalbuminemia, following injury and infection, 340

I

Iliac artery, bilateral ligation with axillobifemoral bypass, in abdominal aortic aneurysm, 460

Immune status, and wound infection, in abdominal surgery patient, 442

Immunity, nutritional, in acute appendicitis, 689

Infection

- abdominal surgical wound, immune and nutritional status and, 442
- hypoalbuminemia following, 340
- intra-abdominal, new concepts, 304
- median sternotomy, 645
- vascular sutures and, 577
- wound, *see* wound infection

Injury, *see also* trauma

- hypoalbuminemia following, 340

Intestine(s)

- bowel ischemia, serum phosphate levels in, 242
- small bowel
- bleeding from, detection of source, 658
- cancer, 31
- obstruction
- in elderly, 470
- omental patching of aortic grafts and, 661
- primary malignancy, 31
- trauma, in pediatric patient, 132
- stoma construction, 462

Intussusception, jejuno gastric, 511

Iodine-125, interstitial implant, for unresectable non-oat cell lung carcinoma, 482

Iron, serum levels, and nutritional immunity, in appendicitis, 689

Ischemia

- bowel, serum phosphate levels in, 242
- skeletal muscle mitochondrial response to, 678

Isoamylase, wheat inhibitor analysis, 349

J

Jejunogastric intussusception, 511

Jejunostomy

- feeding, 205
- needle catheter vs standard tube, 466

K

Kidney

- function, in bacteremia, steroids and (dog), 712
- subcapsular islet cell transplantation (dog), 717

Kidney transplantation

- in Alport's syndrome, 414
- en bloc harvesting technique, method for separating kidneys, 293
- peritonitis in recipient, 617
- transplant (allograft) nephrectomy, *see under* nephrectomy

L

Lavage, peritoneal, in diagnosis of peritonitis, 508

Lightscanning (diaphanography), breast lesions, 58, 591

Lipolymph nodes, of intestinal mesentery, 596

Lipoma

- bleeding, of upper gastrointestinal tract, 279
- colon, 449

Liver function, during hemorrhagic shock (dog), 537

Liver transplantation

- autotransfusion in, 623
- cyclosporine and low-dose corticosteroids in, 155

Loops, vessel, endothelial damage from

- atherosclerotic vessels, 401
- normal vessels, 392

Lung

- collapsed, directed manual recruitment for, 330
- pseudotumor, 84
- trauma, emergency pneumonectomy in, 136

Lung cancer

- anatomy of modern epidemic, 1
- unresectable non-oat cell, interstitial radiation implant for, 482

Lymph nodes

- dissection, in stage I melanoma, 504
- peripheral, biopsy specimens, incidence of malignancy in, 587

M

Macrophage phagocytosis, muramyl dipeptide and, 634

Mammography

- current status, 591
- sonomammography and diaphanography vs, in breast lesions, 58

Medical College of Virginia, surgical history, 487

Melanoma, stage I, lymph node dissection in, 504

Mesentery, lipolymph nodes, 596

Moss esophagogastric balloon tube, for gastric and duodenal decompression, 604

Muramyl dipeptide, and *in vitro* peritoneal macrophage phagocytosis, 634Muscle, skeletal, *see* skeletal muscle

N

- Necrosis, cecal, in dialysis-dependent patient, 621
 Needle catheter jejunostomy, 466
 Nephrectomy
 allograft (transplant)
 clamp for, 632
 wound infection following, 446
 en bloc cadaver technique in, method for separating kidneys, 293
 Neurofibromatosis, renovascular hypertension complicating, 97
 Nutrition
 status
 plasma fibronectin and, 336
 and wound complications in abdominal surgical patient, 442
 total parenteral, in stressed patient, branched-chain amino acids in, 609
 Nutritional immunity, in acute appendicitis, 689

O

- Obesity, morbid
 greater curvature gastropasty for, 197
 lesser curvature gastropasty, conversion to Roux-en-Y gastric bypass due to weight loss failure, 559
 idiosyncrasies of Hollander test in, 316
 "second" operations for poor weight loss, 208, 599
 Obstruction
 biliary, multisystem consequences, 245
 small bowel
 in elderly, 470
 following omental patching of aortic grafts, 661
 Occlusive disease, *see under* vascular disease
 Oculoplethysmography, in carotid artery disease, 107
 Organ failure, multiple, pulmonary vascular resistance in, 477
 Osteomyelitis, in adult, aggressive treatment approach, 363
 Oxygen monitoring, transcutaneous
 in below-knee amputation and skin envelope injuries, 697
 following lower limb revascularization, 407

P

- Pancreas
 adenocarcinoma, prediction of survival by primary size and stage, 42
 carcinoma, in nonjaundiced patient, 252
 islet cell transplantation into renal subcapsular region (dog), 717
 Pancreas divisum, 353
 Pancreatitis
 chronic relapsing, in childhood, 180
 primary hyperparathyroidism and, 325
 serum isoamylase in, wheat inhibitor analysis, 349
 Papaverine vasodilation, in evaluation of aortoiliac occlusive disease, 237
 Parathyroid glands
 biopsy, in primary hyperparathyroidism, 8
 carcinoma, 372
 ectopic, technetium-thallium subtraction scan localization of, 344
 sonographic localization, 286
 Parathyroidectomy, subtotal vs total with autotransplantation, for secondary hyperparathyroidism, 16
 Parotid disease, 664
 Pediatric patient
 cardiac surgery, subclavian vein catheterization for central line placement, 272
 esophageal foreign bodies, 173
 gastroesophageal reflux, patterns of, 212
 hypertrophic pyloric stenosis and Hirschsprung's disease in, 480
 pancreatitis, chronic relapsing, 180
 sigmoid volvulus in, 514
 small bowel trauma, 132
 Pelvic inflammatory disease, acute appendicitis vs, 217

- Peptic ulcer disease
 nonsteroidal anti-inflammatory drugs and, 358
 surgery in, 556
 Pericardial decompression, subxiphoid, for malignant pericardial effusion, 298
 Pericardial effusion, malignant, emergency subxiphoid pericardial decompression for, 298
 Peripheral vascular disease
 arterial occlusions, local intra-arterial streptokinase vs embolectomy for, 381
 "nonreconstructable," extensive revascularization in, 80
 Peritoneal dialysis, Tenckhoff catheter placement, 627
 Peritonitis
 in debilitated and elderly, peritoneal lavage as diagnostic aid, 508
 in renal transplant recipient, 617
 pH, intragastric, prophylactic control of, and bleeding from stress gastritis, 189
 Phagocytosis, macrophage, muramyl dipeptides and, 634
 Phosphate, serum levels, in acute bowel ischemia, 242
 Plasminogen level, following cardiopulmonary bypass, 309
 Pneumectomy, for penetrating and blunt trauma, 136
 Pneumonitis, aspiration, feeding gastrostomy and, 204
 Popliteal artery, cystic adventitial disease, 455
 Potassium, total exchangeable and serum levels, in cirrhotic patients with ascites, 671
 Pregnancy, appendectomy during, 265
 President's address
 Hippocrates never heard of it: anatomy of a modern epidemic, 1
 Who will become a surgeon, 295
 Pulmonary embolism, recurrent, prevention by interruption of inferior vena cava, 375
 Pulmonary vascular resistance, in multiple organ failure, 477
 Pyloric stenosis, hypertrophic, in Hirschsprung's disease, 480

R

- Radionuclide angiography, cardiac, before peripheral vascular surgery, 77
 Radiotherapy, interstitial implant, in unresectable non-oat cell lung cancer, 482
 Rectosigmoid perforation, in homosexual patient, 602
 Rectum
 cancer, *see* colorectal cancer
 prolapse
 Altemeier procedure for, stapler modification, 116
 Thiersch operation, modified, 226
 Renovascular hypertension, in neurofibromatosis, 97
 Respiratory function, in sepsis, automated monitoring, 648
 Revascularization
 cardiac risks, preoperative screening for, 77
 extensive, in "nonreconstructable" vascular disease, 80
 lower limb, pedal malperfusion following, transcutaneous P_{tO_2} documentation, 407
 sequential *in situ* saphenous vein bypass, 70
 thoracic aortobifemoral artery bypass graft, for occlusive aortoiliac disease, 573
 vascular distensibility and, 704

S

- Saphenous vein bypass, sequential *in situ*, 70
 Scanning electron microscopy, endothelial injury from vascular clamps and vessel loops
 atherosclerotic vessels, 401
 normal vessels, 392
 Scintigraphy, *see also* technetium
 abdominal, in detection of bleeding source from small intestine, 658
 in biliary enteric anastomosis evaluation, 158
 for localization of ectopic parathyroid adenomas, 344
 traumatic rupture of diaphragm, 683

Sepsis

- automated respiratory monitoring in, 648
- catheter-related, prevention, 534
- penetrating abdominal trauma and, cefamandole vs carbenicillin prophylaxis, 580
- reoperation for, 149

Shock hemorrhagic, hepatic and cardiac function during (dog), 537**Sialography, in parotid disease, 664****Sigmoid volvulus, in children, 514****Skeletal muscle, mitochondrial response to ischemia, 678****Skin envelope injuries, transcutaneous oxygen monitoring in, 697****Sodium, total exchangeable and serum levels, in cirrhotic patient with ascites, 671****Sonomammography, mammography and diaphanography vs, in breast lesions, 58****Spleen**

- intrapleural autotransplants, clearance of pneumococcal bacteremia and, 269
- ruptured, nonoperative approach in adult, 367

Splenectomy, postoperative complications, 437**Splenic artery aneurysms, digital subtraction angiography in, 606****Staphylococcus aureus, methicillin-resistant, in mycotic aneurysms, antibiotic use in, 314****Stenosis**

- aortoiliac, *see* vascular disease, aortoiliac occlusive disease
- gastrojejunostomy, following gastric bypass, endoscopic balloon dilation for, 194

Sternum, median sternotomy infection, 645**Steroids, effect on cardiac output and renal changes of bacteremia (dogs), 712****Stoma, intestinal, construction of, 462****Stomach, corrosive injury, 170****Streptokinase, intra-arterial, for peripheral arterial occlusion, 381****Stress, total parenteral nutrition in, branched-chain amino acids for, 609****Stricture, peptic esophageal, achalasia mimicking, 563****Stroke**

- asymptomatic carotid bruit and, 388
- carotid endarterectomy for, 61
- following carotid endarterectomy, lucid interval in, 114

Subclavian vein catheterization

- for central line placement in pediatric patient, 272
- change every 3 days in high-risk patient, 534
- safety and versatility, 599

Subxiphoid pericardial decompression, for malignant pericardial effusion, 298**Sutures, vascular, infectivity of, 577****T****Technetium-99m macroaggregated albumin, in diagnosis of traumatic rupture of diaphragm, 683****Technetium-99m pertechnetate scan, in bleeding from small intestine, 658****Technetium-thallium subtraction scan, for localization of ectopic parathyroid adenoma, 344****Tenckhoff catheter, placement of, 627****Thiersch operation, modified, for rectal prolapse, 226****Thoracic injuries, penetrating, 140****Thoracotomy, decortication and, in nontuberculous empyema, 230****Thyroid carcinoma, well-differentiated, 653****Transfusion therapy, autotransfusion in hepatic transplantation, 623****Transplantation, *see specific organs*****Trauma****blunt**

- chest, in elderly, 693
- splenic rupture from, nonoperative approach in adult, 367
- duodenal, 121
- extremities, suspected arterial injuries, contrast arteriography in, 89
- lung, emergency pneumonectomy in, 136

penetrating

- abdominal, sepsis following, cefamandole vs carbenicillin prophylaxis, 580
- acute arterial injuries of forearm, 318
- chest wall, 140
- thoracic, 140
- rupture of diaphragm, 683
- small bowel, in pediatric patient, 132
- thoracic aneurysm of aortic arch, chronic, 567
- Tube gastrostomy, in major abdominal surgery, 201
- Tube jejunostomy, needle catheter jejunostomy vs, 446

U**Ulcers/ulceration**

- gastroduodenal, perforated, survival, preoperative serum creatinine as predictor, 551
- peptic, *see* peptic ulcer disease
- stress, prophylaxis, 545

Ultrasound

- breast imaging, current status, 591
- Duplex scan evaluation of postendarterectomy carotid bruit, 570
- parathyroid localization, 286

V**Vascular disease**

- aortoiliac occlusive disease
 - brachial and femoral artery pressure determinations during reactive hyperemia and papaverine vasodilation, 237
 - thoracic aortobifemoral artery bypass grafting for, 573
- cystic adventitial disease of popliteal artery, 455
- peripheral arterial occlusion, local intra-arterial streptokinase vs embolectomy for, 381

Vascular distensibility, measurement of, 704**Vascular injury**

- endothelial injury from vascular clamps and vessel loops, 392, 401
- extremities, contrast arteriography in, 89
- forearm, 318

Vascular surgery, *see also* revascularization

- vascular distensibility and, 704

Vascular sutures, infectivity of, 577**Velour grafts, external vs double, in canine thoracic aorta, 637****Vena cava, inferior, interruption, for prevention of recurrent pulmonary embolism, 375****Ventricular function, on reperfusion, coronary bypass grafting technique and, 497****Volvulus, sigmoid, in children, 514****W****Water-electrolyte balance, in cirrhotic patient with ascites, total exchangeable sodium and potassium and serum electrolyte levels in, 671****Wheat inhibitor analysis, serum isoamylase, 349****Wound hematoma, after carotid endarterectomy, 111****Wound infection**

- in abdominal surgery, immune and nutritional status and, 442
- following allograft (transplant) nephrectomy, 446

X**Xeromammography, current status, 591****Xeroradiography, biopsy specimen from noncalcified, nonpalpable breast lesion, 50**

AUTHOR INDEX

A

Abcarian, Herand 462
 Abu-Yousef, Monzer M. 50
 Adams, C. Michael 504
 Adkins, R. Benton, Jr. 84, 121, 140
 Akin, Hobart E. 693
 Al-Jurf, Adel S. 37, 47, 50
 Albertson, David A. 16
 Alexander, J. Wesley 414
 Allen, Julian E. 697
 Allo, M. 609
 Andrews, C. Radford 437
 Apostolidis, Nicholas S. 242
 Aranha, Gerard V. 325
 Arensman, Robert M. 132, 514
 Asch, Morris J. 480
 Aszodi, Amin 671
 Ausobsky, Jonathan R. 634

B

Baker, J. D., III 494
 Baloga, Anna J. 162
 Bandlien, Karl O. 721
 Barbato, Anthony 344
 Barillo, David J. 217
 Bean, Patrice K. 42
 Bennett, Bradley H. 116
 Benson, Daniel W. 682
 Bernstein, Jack M. 577
 Bivins, Brack A. 318
 Blackwood, James M. 149
 Bouwman, David L. 349
 Bowling, Roy 136
 Bradley, Edward L., III 42
 Bree, Robert L. 367
 Britt, Louis G. 155, 623
 Brown, Alton G. 455
 Brown, Gregory L. 634
 Brown, Janet 309
 Brown, O. William 80
 Brown, Robert C. 50
 Brubrick, Melvin P. 556
 Buchbinder, Dale 70
 Buckspan, Randy J. 21
 Buckwalter, Joseph A. 208
 Bunt, T. J. 61, 392, 401
 Buntain, William L. 180
 Burdick, Michael 309
 Burges, Gene E. 455
 Burks, William P. 460
 Burtch, Gordon D. 204
 Busuito, Michael J. 349
 Bynoe, Raymond 401

C

Calandra, David 344, 372
 Canizaro, Peter C. 470
 Cardoso, Ronald 587
 Carey, L. C. 551
 Carlson, Robert D. 381
 Carr, Jerome 107

Chaikhouni, Amer 173
 Chandler, James J. 460
 Chang, Alfred E. 375
 Chang, Patrick 587
 Chapman, Todd P. 446
 Cioroiu, Michael 508
 Cogan, Frederic 407
 Cogbill, Thomas H. 511
 Cohen, Steven 708
 Collins, George J., Jr. 111
 Colyer, Robert A. 363
 Cowles, Lance 627
 Crampton, Richard S. 497
 Crawford, Fred A. 173
 Cronen, Paul W. 627
 Crosby, Ivan K. 497
 Cuschieri, Alfred 675

D

Dahn, Michael S. 340
 Dalbagni, Guido 252
 Dang, Collin 548
 Dao, Anh H. 84
 Davidson, J. Thomas 460
 Davis, Alan T. 336
 Davis, Charles 58
 Davis, John Mihan 470
 Dean, Richard E. 295, 336
 Doberneck, Raymond C. 265
 Doctor, Umakant S. 77

E

Eddy, Virginia 58
 Elias, Diana L. 97
 English, Dan C. 423
 Escat, J. 166
 Evans, Douglas 520

F

Falchuk, Steve C. 708
 Falterman, Kenneth H. 132, 514
 Fay, Sheila 661
 Fenwick, Michael K. 675
 Feretis, Christos B. 242
 Ferguson, Charles M. 223
 Ferrara, John J. 551
 Fidler, James P. 414
 Fiore, Andrew C. 353
 First, M. Roy 414
 Fitts, C. Thomas 414
 Flint, Lewis M. 136
 Fournier, D. 166
 Fourtanier, G. 166
 Foy, Hugh 661
 Friedell, Mark L. 621
 Friedenber, William R. 381
 Fry, Donald E. 189, 671
 Fry, Willard A. 298

G

Gage, Andrew A. 388
 Geelhoed, Glen W. 431
 Geelhoed, Glenn W. 116
 Geuder, James W. 89
 Gibbs, Mark R. 596
 Giltman, Larry I. 504
 Golematis, Basil Ch. 242
 Gomez, Edward R. 111
 Gordon, Debra A. 721
 Gordon, S. 609
 Graham, Arthur D. 687
 Graham, Barney S. 84
 Gray, Laman A., Jr. 136
 Greene, Frederick L. 58
 Greenfield, Lazar J. 487
 Gregory, Jay A. 534
 Griffin, C. Clayton 604
 Gunderson, Sigurd B., Jr. 511
 Gutierrez, Irineo Z. 388
 Guyton, Daniel P. 520

H

Haas, Kara L. 573
 Haggitt, Roger C. 155
 Hairston, Peter 114, 599, 645
 Hanks, John B. 31
 Harman, P. Kent 31
 Harris, LeRoy F. 262
 Harvey, Vernell 570
 Hau, Toni 617
 Hauck, A. E. 426
 Haun, Joyce L. 466
 Hawkins, Irvin 194
 Hayes, David K. 414
 Haynes, James L. 61
 Helling, Thomas S. 446
 Henkin, Robert 344
 Herbst, Charles A., Jr. 208, 474
 Hicks, Cheryl 58
 Hightower, Felda 226
 Hines, George L. 570
 Hirata, Richard M. 664
 Hitchcock, Claude R. 556
 Hobson, Robert W., II 89, 237
 Hocking, Michael P. 563
 Hod, Giora 170
 Hodson, Gregory R. 47
 Hollier, Larry H. 80
 Honer, Hubert M. 559
 Horne, Jane B. 455
 Horst, H. Mathilda 318
 Howe, W. Robin 136
 Howells, Greg A. 367
 Hrabovsky, Ellen E. 212
 Hubbard, Sara 418

I

Irvin, George L., III 418
 Isaacson, Norman H. 602

J

Jacobs, Lloyd A. 340
 Jain, Krishna M. 77
 Jamil, Zafar 89, 237
 Jaques, Darrell A. 664
 Jarstfer, Bruce S. 111
 Jensen, Mark O. 556
 Jochimsen, Peter R. 37, 47, 50
 Johansen, Kaj 661
 Johnson, Alan M. 31
 Johnston, Frank R. 1
 Jones, Charles W. 577
 Jones, T. 609
 Jones, Todd N. 477
 Jorgensen, Richard 344

K

Kakani, P. Rao 262
 Kellum, Charles 567
 Kerr, John C. 217
 Kerstein, Morris D. 573, 606
 Keyser, John E., III 121
 Khandekar, Janardan D. 298
 Khouri, Roger K. 208
 Kim, Hae Won 708
 Kingsley, Alexander Nehme 545
 Kirkpatrick, John R. 340
 Knoepp, Louis F. 523
 Knoll, Stanley M. 602
 Koborozos, Basil A. 242
 Koga, Akitoshi 529
 Kolts, R. Lee 381
 Kon, Neal D. 197
 Kratz, John M. 173
 Kron, Irving L. 272, 567
 Kuehner, Marvin E. 381
 Kumar, J. 442
 Kumar, Sarbjeet S. 201
 Kunkel, James M. 111

L

LaRaja, Raymond D. 252, 508
 Lake, Carol L. 272, 497
 Lamis, Pano A. 94
 Lange, M. Patricia 340
 Larson, Gerald M. 189
 Lawrence, A. M. 344
 Lawrence, Ann M. 372
 Lazaro, Eric J. 26, 217
 Lazebnik, Noam 449
 Lazebnik, Rina 449
 Lee, Bing C. 89, 149, 237
 Lee, Robert E. 318
 Lefemine, Armand A. 274
 Lehman, Glen A. 353
 Lernau, Omri Z. 170
 Lewis, Mary 274
 Lineaweaver, William 194
 Lipton, James S. 460
 Lischick, Walter P. 602
 Litton, Nancy J. 596

Lobbato, Vincent 508
 Lolley, David M. 256
 Lou, Sister Mary Ann 580
 Lucas, Robert J. 367
 Lynch, Thomas G. 89, 237

M

MacKenzie, Gerald H. 721
 Machiedo, George W. 149, 604
 Madura, James A. 353
 Maher, James W. 690
 Maigne, C. 166
 Majeski, James A. 414, 630
 Makula, Paula A. 388
 Malliwah, Jumanne A. 537
 Mammen, Eberhard F. 309
 Mandal, Ashis K. 580
 Manouras, Andreas J. 242
 Manship, Lawrence L. 392, 401
 Mansour, Michael 375
 Maples, Michael D. 84
 Marks, Malcolm 132
 Martin, J. D., Jr. 426
 Martin, Louis F. 189
 Martin, Matt B. 197
 Maull, Kimball I. 693
 Mavroudis, Constantine 136
 Mayo, Porter 230
 McCalla, Thomas H. 514
 McCammon, Richard L. 353
 McCoy, D. Mark 634
 McCroskey, Mark C. 349
 McFaddin, David M. 548
 McGarity, William C. 8
 McGuigan, James E. 690
 McKeown, Peter P. 8
 McKone, Timothy K. 336
 Mentzer, Robert M. 567
 Meredith, Jesse H. 197
 Metcalf, Margaret M. 645
 Michowitz, Moshe 449
 Miller, Edward D. 272
 Mitchell, Robert A. 340
 Mogle, Paul 170
 Monaghan, Timothy 477
 Moore, E. E. 609
 Moore, William M. 392, 401
 Morgan, Raymond F. 664
 Morton, Charles E. 168
 Moss, James P. 627
 Moulder, Peter V. 573
 Mount, Bruce E. 708
 Mozes, Martin F. 617
 Mullett, Martha D. 212
 Munda, Rino 414
 Myers, Richard T. 16, 226
 Myers, William O. 381

N

Nag, Subir 482
 Najem, Ahmed Z. 217
 Nakayama, Fumio 529
 Nance, Francis 132
 Neill, Gavin D. 675
 Nelson, Henry S., Jr. 693
 Nelson, Robert M. 301, 314
 Nghiem, Dai D. 632, 668
 Niffenegger, John 682

Nissan, Shemuel 170
 Nolan, Stanton P. 272
 Novak, Russell 330
 Noy, Shlomo 449

O

O'Connor, Katherine W. 353
 O'Connor, Melody J. 245
 Obeid, Farouk N. 318
 Oca, Clemente F. 559
 Olinde, Andrew J. 690
 Olliff, Lynda K. 708
 Olney, James R. 37
 Onstad, Gerald R. 556
 Ontai, Sidney 653
 Orsay, Charles P. 462
 Osmer, Robert L. 301
 Osuch, Janet Rose 298
 Ott, Roger 344

P

Padberg, Frank T., Jr. 89, 237
 Pairolo, Peter C. 80
 Paloyan, Edward 344, 372
 Pate, James W. 437
 Pate, James 482
 Patel, Bharti R. 690
 Patil, Khushal D. 77
 Payne, Dolford F., Jr. 94
 Pearl, Russell K. 462
 Peck, Stephen L. 77
 Pecoraro, Joseph P. 687
 Pedigo, Randall E. 693
 Pemberton, L. Beaty 596
 Pennell, Timothy C. 226
 Peoples, James B. 358
 Perler, Bruce A. 107
 Peters, Thomas G., 155, 437, 623
 Petrek, Jeanne A. 42
 Pitzon, Richard H. 50
 Platz, Charles E. 50
 Polk, Hiram C., Jr. 634
 Pollak, Raymond 617
 Ponsky, Jeffrey L. 671
 Poole, Galen V., Jr. 16, 226
 Prasad, M. Leela 462
 Prevost, F. 166
 Printen, Kenneth J. 316
 Prinz, Richard A. 325
 Prioleau, William H., Jr. 114, 599, 645
 Puyau, Michael K. 606

R

Raina, Suresh 26, 604
 Rajagopalan, P. R. 414
 Ram, Madhira D. 158
 Rao, Mohan 627
 Reilley, Ann 132
 Reines, H. D. 494
 Rekha, Gollakota 482
 Reyman, Theodore A. 721
 Rheuban, Karen 272
 Rhodes, Glen R. 70, 407, 701
 Richardson, J. David 136
 Ricketts, Richard R. 97

Robertson, John 194
 Robinson, David S. 418
 Rocko, Joyce M. 26, 641
 Rosenthal, David 94
 Rothenberg, Robert E. 252, 508
 Roy, S. K. 442
 Rush, Benjamin F. 26
 Rush, Benjamin F., Jr. 149
 Rutledge, Robert 474
 Ryckman, Frederick C. 563
 Ryckman, Frederick 194

S

Sandberg, Wendy A. 42
 Sano, Kaiso 658
 Sauls, Jeffery L. 606
 Saunders, John R., Jr. 664
 Sauvage, Lester R. 637
 Sawyers, John L. 21
 Scher, Kenneth S. 269, 577
 Schiller, William R. 534
 Scholten, Donald J. 330
 Schreiber, Helmut 520
 Schwab, C. William 697
 Schwab, Richard 367
 Scott, H. William, Jr. 84
 Scott-Conner, Carol 269
 Selah, Charles E. 262
 Selk, Nancy 309
 Sellers, T. Duncan 497
 Sewell, Charles W. 8
 Seymour, E. Q. 591
 Shah, Kishor 372
 Shatney, Clayton H. 204
 Shea, Lawrence M. 687
 Sheppard, Frank 162
 Sheth, Nitin 252
 Shigemoto, Hirosada 658
 Shirazi, Siroos S. 37
 Short, Dwight H. 606
 Shuck, Jerry M. 304
 Shukla, V. K. 442
 Simon, Gary L. 431
 Simpson, Thomas 627
 Sims, Edward H. 580
 Sindelar, William F. 375
 Smith, David J., Jr. 363
 Smith, Robert B., III 97
 Smith, Stuart 340
 Snider, W. Ray 596
 Snyder, James V. 330
 Solomons, C. 609
 Spillert, Charles R. 217
 Sriwatanawongsa, Voravit 587
 Stallworth, J. Manly 455
 Stanley, John H. 591
 Stanson, Anthony W. 80
 Stanton, Paul E., Jr. 94
 Starricco, Andrew 309
 Stein, Theodore A. 716
 Stewart, Wilson S. 675
 Stone, Alex M. 716
 Strahley, Clifford J. 653
 Strand, Mitchell 508
 Suits, G. Steven 523
 Susann, Philip W. 162
 Suval, William 149
 Swan, Kenneth G. 641
 Swanson, Mark K. 381

T

Tai, Douglas L. 482
 Tan, Ana B. 462
 Tegtmeier, Charles J. 567
 Tell, Brian L. 460
 Tenorio, Luis E. 687
 Thadepalli, Haragopal 580
 Thompson, Jon S. 466
 Tidmore, Hollis 158
 Tikellis, James 149
 Tindel, Martin S. 716
 Toledo-Pereyra, Luis H. 721
 Tom, Walter W. 367
 Torres, Jose C. 559

U

Urdaneta, Luis F. 37, 47, 50

V

Vaidya, M. P. 442
 Vaislic, C. 166
 Van DeWater, Joseph M. 708
 Van Voorst, Steven J. 155, 623
 Van Way, C. W., III 609
 Van Way, Charles W. 477
 Vera, Santiago R. 155, 623
 Vinsant, G. O'Neal 693
 Vitale, Gary C. 675
 Vo, Nghia M. 648
 Voegelé, L. Dieter 114, 599, 645
 Vyssoulis, Gregory P. 242

W

Wallace, C. T. 494
 Wanamaker, Steven 551
 Watkins, George M. 687
 Weaver, Donald W. 349
 Weinstein, Eric S. 682
 Wellons, H. A., Jr. 497
 Whalen, Thomas V., Jr. 480
 Whiteneck, James M. 140
 Wild, Ronald E. 474
 Williams, G. Melville 107
 Williams, James W. 155, 623
 Wilson, Robert F. 301, 309, 314
 Wise, Leslie 716
 Wolk, Larry A. 309
 Woltering, Eugene A. 140
 Woodward, E. R. 194
 Woodward, Edward R. 563
 Wroczynski, A. Frederick 269
 Wu, Hong-De 637

Y

Yamamoto, Yasuhisa 658
 Yamauchi, Shoichiro 529
 Yokum, Michael 672

Z

Zadeh, Barry J. 470
 Zamir, Oded 170
 Zammit, Michael 637

